

We build an application for helping users manage their Weekend operations. We assume a Weekend users' database. The description is as follows. The database contains a list of all the users registered to Weekend. Weekend offers various features like online shopping, e-books, recommending books and groceries.

Users can register themselves only once for online shopping and e-books. While registering users can choose any of the three following tiers of membership:

- Basic: Only online shopping
- Silver: Online shopping and an e-books account with limited access
- Gold: Online shopping and an e-books account with full access

A user can buy multiple grocery items and a particular item can be bought by multiple users. A user can read multiple books and a book can be read by multiple users.

A user can register only one account with one email ID (unique).

A user's email id is validated for existence before creating an account.

A user can choose only one of the 3 tiers of membership.

A user cannot update their email id once registered.

A user's password will be displayed in *** format in the GUI and the length of the password is 8-20 characters.

A user can login only if their email id is registered and the password matches.

The names of the grocery items are unique.

The book titles are unique.

A user can buy multiple grocery items and a particular item can be bought by multiple users.

A user can read multiple books and a book can be read by multiple users.

A user can access only those applications and only to the extent that they've registered for.

Provide GUI forms to create account and login. - Kartheek

Provide interface to view, search and add items to cart. - Rishika

Provide interface to view, filter and read books. - Manasa

Provide interface for admin to add/remove items and books. - Yashika

Provide recommendations to the user based on past purchases.

Provide interface for user to view transaction history.

Provide interface for user to update their profile.

One GUI window for creating user to the app with different permissions- Admin/basic/silver/gold

Updating user data GUI

Navigation:

First screen is login screen, from there GUI to update inventory for admin and home screen for users.

Users can then navigate online shopping, e-books library and transaction history.

From online shopping page we can go back to home page or to checkout page.

From e-books page we can filter books, read them and go back to home page.

RDBMS - MySQL

Programming - Python

Database connectivity driver - Python

Development platform - Flask